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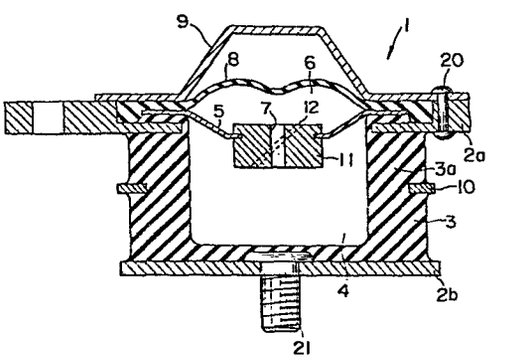
(54) Vibration damper.

(57) A vibration damper of viscous damping type for damping low-frequency (10 to 20 Hz) vibrations has at least one subpassageway (12) oblique to the axis of a main passageway (7). Since vortexes are generated around the main passageway (7) as damping fluid passes through the subpassageway, (12) the fluid can effectively reciprocate through the main passageway (7) in response to pressure gradients induced by the vortexes, thus increasing the damping force generated as the fluid flows through the main passageway. Further, since the frequency at which the maximum flow rate, that is, the maximum damping factor can be obtained is determined on the basis of the dimensions of a passageway, the dimensions of the main passageway (7) and the subpassageway (12) are selected so as to match the maximum-flow-rate frequency of the subpassageway with that of the main passageway.

FIG.3(A)



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EP 82 10 5435

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
A	GB-A-2 041 485 (FREUDENBERG) * Whole document *	1,4,5,8	B 60 K 5/12 F 16 F 9/10
A	EP-A-0 027 751 (PEUGEOT-CITROEN) * Whole document *	1,2	
A	GB-A-2 041 486 (FREUDENBERG) * Whole document *	1	
A	US-A-3 220 517 (LORENZ) * Column 4, lines 35-56; column 5, lines 16-45; figures 3,4 *	1,6,7	
A	FR-A-1 549 300 (PEDDINGHAUS) * Page 6, left-hand column, paragraph 3 - right-hand column, paragraph 3; figures 5-7 *	1-3	TECHNICAL FIELDS SEARCHED (Int. Cl. ³) F 16 F B 60 K
P	EP-A-0 038 062 (NISSAN MOTOR) * Page 13, claim 1; figures 3-6 *	1,4,6	
P	EP-A-0 040 290 (FREUDENBERG) * Whole document *	1,2	

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	10-08-1983	ESPEEL R.P.

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E	PATENTS ABSTRACTS OF JAPAN, vol. 6, no. 213(M-167)(1091), 26th October 1982 & JP - A - 57 118 921 (NISSAN JIDOSHA K.K.) 24-07-1982	1,8	
A	US-A-2 387 066 (HARDING)		
A	US-A-4 159 091 (LE SALVER)		

TECHNICAL FIELDS SEARCHED (Int. Cl. ³)

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